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## CAPACITORS - OIL, PAPER and ELECTROLYTIC



**Illinois**  
**CONDENSER COMPANY**  
1160 N. HOWE ST. • CHICAGO 10, ILL.

# RADIO NEWS • 1945

## INDEX TO VOLUMES 33-34

### AMATEUR

(See also—Transmitters)

An Inexpensive Remote Antenna Meter (Sumner) .....	43 May
A Simple Coaxial Switch (Burgess) .....	58 Nov.
Build This Victory Transmitter (Dexter) .....	30 Aug.
Build Your Own V.h.f. FM-AM Receiver (Rattray) .....	29 Dec.
Comparison of Visual and Oral Reception (Pollack) .....	32 Aug.
Designing a Commercial Type Front Panel (Goldberg, W2HKW) .....	44 May
FM for Home Use (Frank, W9JU) .....	44 Dec.
450 mc. Microwave Transmitter (Frank, W9JU) .....	38 May
450 mc. Super-Regenerative Receiver (Frank, W9JU) .....	29 July
Generating R. F. at 600 mc. (Maron) .....	51 Sept.
Hamsters' Picnic .....	35 Oct.
Ham Radio—Today and Tomorrow (Washburn, ex-2AUS, & Williams, W8ODX) .....	38 Dec.
Home Constructed 112 mc. Receivers (Gavin, W9YES, & Heytow, W9FAL) .....	29 Nov.
"Junk Box" Short Wave Receivers (Hooten, W8KPX) .....	36 Sept.
Multi-Band 30 Watt Transmitter (Silver) .....	48 Feb.
100 mc. Transmitter (Maron) .....	42 Aug.
112 mc. Crystal-Controlled Transmitter (Morey, W9KBO) .....	35 Oct.
112 mc. Converter (Frank, W9JU) .....	46 Nov.
"QRM" a Threat to Amateur Radio (Mobus, W9UAO) .....	28 Aug.
Radio Operators' License Regulations (Gregg) .....	96 July
Television for the Amateur (Read, W9ETI) .....	35 Aug.
Temperature Control in the Design of Stable Oscillators (Tyler) .....	76 Oct.
The Oscilloscope Applied to Transmitter Checking (Eddy & Howard) .....	32 Oct.
The Road to Hamdon (Mobus, W9UAO) .....	54 Oct.
Wave Guides (Mallory) .....	36 Dec.
0-300 Volt Regulated Power Supply (Davis) .....	38 Sept.

### ANTENNAS

Antennas for Television Receivers (Noll) .....	40 May
It's a Bantamweight (Cohen) .....	64 Apr.

### AVIATION

Communications Airborne (Flynn) ..	32 Mar.
Communications on the World's Greatest Airline (Haines) .....	25 Apr.
Electrical Computing Airborne Gunsight (Lasche) .....	32 Feb.
Electronic Flight Recorder (Thompson & North) .....	25 Feb.
Instrument Landing System (Hennessy) .....	25 Aug.
Television for Future Airway Traffic Control (Morse) .....	38 Jan.
U. H. F. For Federal Airways (Taylor) .....	32 Sept.

### BOOK REVIEWS

An Introduction to Electronics (Hudson) .....	72 Apr.
Applied Mathematics for Radio and Communication Engineers (Smith) ..	62 Nov.
Applied Practical Electricity (The Staff, Coyne Electrical School) ..	143 Aug.
Behind the Microphone (Floherly) ..	62 Feb.
Dictionary of Engineering and Machine Shop Terms (Sandy) .....	72 Apr.
Instrument Flying and Radio Navigation (Redfield) .....	62 Jan.

Introduction to Microwaves (Ramo) ..	62 June
Introduction to Practical Radio (Tucker) .....	84 July
Meet the Electron (Grimes) .....	62 Jan.
Prodigal Genius, The Life of Nikola Tesla (O'Neill) .....	62 Feb.
Radio Advertising for Retailers (Sandage) .....	72 Apr.
Radio Production Directing (Crews) ..	72 Apr.
Science Today and Tomorrow (Kaempfert) .....	60 Sept.
Simplified Radio Servicing by Comparison Method (Beitman) .....	84 July
Soul of Amber (Still) .....	105 May
Television Programming and Production (Hubbell) .....	60 Sept.
The Electrolytic Capacitor (Georgiev) .....	62 Nov.
The Radio Amateurs' Handbook (The ARRL Staff) .....	62 June
U.H.F. Radio Simplified (Kiver) .....	143 Aug.
War-time Radio Service (Middleton) ..	105 May

### BROADCASTING

Proposed Frequency Allocations, 25,000 Kc. to 30,000,000 Kc. ....	31 Mar.
---	---------

### COMMUNICATIONS

China Looks Ahead in Radio (Holloway) .....	62 Sept.
11,500 Mile Radio Net .....	50 Aug.
Foreign Broadcast Intelligence Service (Read, W9ETI) .....	25 Jan.
Inter-American Radio (Ogilvie) .....	25 May
Marine Communications (Becker) .....	25 July
Modernizing International Telegraphic Communication (Harrison) ..	76 Sept.
Radio-Spearheads Patton Armor (Read) .....	48 June
Ultrasonic Communications (Rowe) ..	48 Oct.

### CRYSTALS

Quartz Crystal Frequency Measurement (Laing) .....	46 May
Quartz Crystal—Today and Tomorrow (Clark) .....	45 Sept.
Testing Crystals (Jeltrup) .....	44 July

### ELECTRONICS

British Electronic Target Locators (Porter) .....	28 May
Electronic Aids to Photography (Turner) .....	32 May
Electronics—At Work (Bradford) ..	54 June
Electronic Circuits Perform Mathematical Processes (Beitman) .....	72 May
Electronic Moisture Indicator (Seidlinger) .....	35 May
Electronic Timers (Proctor) .....	53 Oct.
Installation and Maintenance of Navy Electronic Equipment .....	80 Mar.

### EQUIPMENT (TEST)

Amplifier-Type Vibrating-Reed Frequency Meter (Turner) .....	46 Sept.
An Improved Wheatstone Bridge (Silver) .....	30 Sept.
Audio Oscillators and Their Applications (Hoadley) .....	29 Sept.
Direct Reading Impedance Meter (Dexter) .....	38 Apr.
Electronic Volt-Ohmmeter (Arnold) ..	48 Nov.
Electrolytic Capacitor Checker (Turner) .....	38 Oct.
5" Oscilloscope Design (Turner) .....	36 Aug.
Impedance Bridge for L.C.R. Measurements (Turner) .....	42 June
Linear Sweep Generators (Tatz) .....	52 May
Microfarad Meters—Their Advantages and Limitations (Turner) ..	46 Dec.
Modulated Signal Generator (Welles) ..	36 Jan.
New Type Signal Tracer (Litt, 2LCC) ..	31 Oct.
Servicemen's Multimeter (Hunter) ..	40 Mar.
Sine-Square Wave Oscillator (Silver) ..	48 Mar.

get of attack from all three Canadian political parties, whose counterproposals run the gamut from an outright BBC monopoly to a variation of the "American system."

-50-

## QTC

(Continued from page 56)

**M.** J. CESTONE, an ol' timer from the Gulf ports, is shipping from the West Coast and is now doing a stretch on the *Nancy Lykes* . . . Don Mealy, ex-marine opr, is with Consolidated Airlines, flying an LB 30 between 'Frisco and Honolulu . . . Les Grogan is back from Alaska fishing and on the *Richard Harding Davis*, a Liberty, but he is looking for a passenger wagon and the "good ol' days."

John Lutterman, ex-Texas Co. opr on the *SS Sea Blaney* . . . Lieut. M. A. Stiltner, former fighter pilot off the *USS Enterprise*, wants his friends to know he is in the merchant marine after he "got it" and if he can't keep 'em flying he will help to keep 'em sailing to bring the boys back home; he's on the *Dennison Victory* out of 'Frisco.

**M.** F. JOHNSON making his "first trip" aboard a Liberty from the West Coast . . . F. Jones is riding his "first" also—as chief on the *T. A.*

*Johnston* . . . *T. A. Temple* was in port for a few days and was assigned to the *Peter Donhue* . . . Pete Johnson is now a former radio officer—he is doing a stretch as mate, but did not report the name of his ship . . . Norman William reports he is on his "second" trip aboard the *SS John B. Floyd* . . . Geo. Meak is now chief on the *James A. Butts*. George was riding the *President Coolidge* when she hit a mine field; good luck on this one, George! . . . Harry A. Morgan, who resigned as vice president of ACA's marine division some months ago, is now with ACA's local No. 3 at 'Frisco and feeling OK once again. Harry resigned as vp due to ill health. . . . 73

## Listening to the World

(Continued from page 66)

was only one way to intercept these messages—by obtaining a Hellschreiber. The BBC got one, and then more machines. Thus, they were able to monitor fully both Goebbels instructions and news. At first this was kept secret since it was not known whether the Goebbels organization knew or suspected that Britain was eavesdropping systematically on all his private conversations; or whether, though he knew it, he could do nothing about it since his own Hellschreiber setup was too valuable and elaborate to be scrapped.



The Morse Listening Room, where ordinary telegraph service signals in Morse code are intercepted and copied on the typewriters. High-speed signals are recorded and slowed down later for transcription.

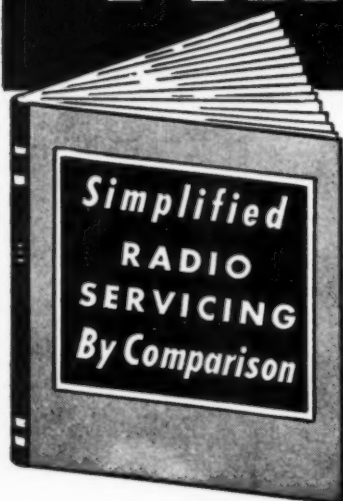
All voice broadcasts are not only heard by the individual monitors (the listeners) but simultaneously recorded on equipment very similar to that of a dictaphone, to insure that what the monitor hears can be checked. The moment a monitor has finished his listening and has made such notes as he requires for his own guidance, he goes into the Information Bureau to confess. This means that he reports every item monitored to a supervisor who knows where this information should be flashed first. This supervisor indicates the appropriate treatment of what the monitor has heard.

The military leader who said that the BBC Monitoring Service had the value for the Allied Forces of 40 divisions was not exaggerating.

-50-

# FIX ANY RADIO

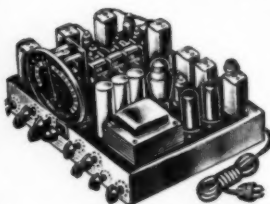
## Amazing New Invention



Find radio faults with a new simplified method. Repair all radios in minutes instead of hours. Revolutionary, different Comparison technique permits you to do expert work almost immediately. Most repairs can be made without test equipment. Simple point-to-point, cross-reference, circuit suggestions locate faults quickly and easily.



### CHARTS, BLUEPRINTS, TESTS, HINTS, JOB-SHEETS



Learn time-saving trouble-shooting short-cuts; find any radio fault with ease. Follow the tests shown on 24 large circuit blueprints. Over 1,000 practical repair hints. Hundreds of simplified tests using a 5¢ resistor and any filter condenser. Introductory material for beginners and to serve as review for experienced radio men. Several chapters on test equipment. Complete plan in manual form; 64 job-sheets; data on all tubes; size: 8 1/2 x 11 inches. Sold on no-risk trial. Money-back guarantee. Use coupon to order.

### NO TESTERS NEEDED

### REPAIR ANY RADIO IN MINUTES

This newly developed method tells you how to locate the source of trouble in any radio set without equipment. Make needed tests, measure voltage, trace the signal, by using only a 5¢ resistor, small condenser, and a crystal detector. Inject signals without any signal generator. Test parts by the new Comparison method. Test tubes without equipment. Repair any radio expertly following simplified picture plans. Improve your radio servicing ability. Data on all sets, portables, AC-DC, FM, recorders, intercoms, P.A. Examine and apply the plan for 10 days without obligation or risk. Send trial coupon today →

### NO RISK TRIAL ORDER COUPON

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NAME: . . . . . RNJ

ADDRESS: . . . . .



The Audio Chanalyst (Liebscher)... 32 Dec.  
Vacuum Tube Analyzer (Sands)... 38 Nov.

#### FACSIMILE

Facsimile Transmitter and Receiver 43 Mar.

#### FREQUENCY MODULATION

Build Your Own V.h.f. FM-AM Receiver (Rattray) ..... 29 Dec.  
Easily Built FM Broad Band I.F. Transformers (Lyke) ..... 46 July  
Facts on FM Station Ownership (Hoefler) ..... 36 June  
FM for Ham Use (Frank, W9JU)... 44 Dec.  
FM Radio Relay (Lee)..... 54 Dec.  
New FM Frequency Converters.... 35 June  
118 mc. FM Proves Successful (McNulty) ..... 52 Apr.

#### GENERAL OR MISCELLANEOUS

Easily Built FM Broad Band I.F. Transformers (Lyke) ..... 46 July  
"Electronically Yours, G. I. Joe" (Taylor) ..... 36 Feb.  
French Underground Network During German Occupation (Porter)..... 72 Feb.  
News From Overseas (Porter) 82 Jan., 58 Mar., 66 May, 72 June, 80 July  
Plotting Engineering Data (Middleton) 56 Aug.  
Radio Industry Goes to Press (Carroll) ..... 44 Mar.  
Talking Doorbell (Meissner)..... 53 June  
Temperature Control in the Design of Stable Oscillators (Tyler)..... 76 Oct.  
The Piano of the Future (Kempner). 25 Mar.  
Tuning For Multivibrator (Talley)..136 Oct.

#### INSTRUCTION (COURSES)

Practical Radio Course (Ghirardi)  
Part 30—Spurious Superheterodyne Interference ..... 44 Jan.  
Part 31—Spurious Superheterodyne Interference ..... 52 Feb.  
Part 32—Superheterodyne Oscillators ..... 64 Mar.  
Part 33—Superheterodyne Oscillators ..... 50 Apr.  
Part 34—Oscillator Circuits..... 50 May  
Part 35—"Tracking" Superheterodynes ..... 46 June  
Part 36—"Tracking" Superheterodynes ..... 48 Aug.  
Part 37—"Tracking" Superheterodynes ..... 48 Sept.  
Part 38—"Tracking" Superheterodynes ..... 50 Oct.  
Part 39—Pushbutton Tuning .... 56 Dec.  
Television Radio Course (Noll)  
Part 1—An Introduction to Television ..... 50 Jan.  
Part 2—The Television Channel. 46 Feb.  
Part 3—Television Transmitting Equipment ..... 46 Mar.  
Part 4—The Television Receiver. 32 Apr.  
Part 5—Antennas for Television Receivers ..... 40 May  
Part 6—Television R.F. & I.F. Systems ..... 50 June  
Part 7—Television I.F. System... 52 July  
Part 8—Television Sound Channel 52 Aug.  
Part 9—Video Amplifiers ..... 57 Oct.  
Part 10—Functions of Video Circuits ..... 48 Dec.  
Theory and Application of U.H.F. (Kiver)  
Part 9—Coupling Methods ..... 58 Feb.  
Part 10—Electric Fields ..... 57 Apr.  
Part 11—Magnetic Fields ..... 57 June

#### MEDICAL EQUIPMENT

Developments of Cardiac Diagnostic Instruments (Rappaport) ..... 25 Sept.

#### MILITARY

Air Corps Radio Praseology Training (Susan) ..... 70 Jan.  
"Ambers' Ears ..... 41 Feb.  
Captured 1000 Watt Jap Transmitter Classroom Chores 10,000 Feet Up (Kent) ..... 56 May  
Ad's Advice to G. I. Joe (Paige)... 28 Apr.  
Electronically Yours, G. I. Joe"

January, 1946

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30-50 OHMS

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Hand-D



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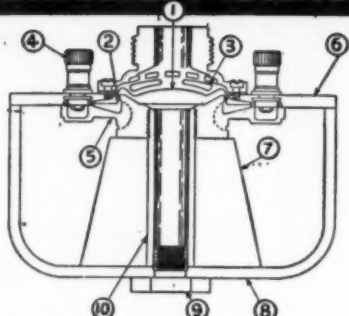
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## Inside Facts About RIME No. 7 PERMANENT MAGNET



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- 2—Horn mounting accurately centered.
- 3—Perforated die-cast palate.
- 4—Cadmium plated heavy-duty binding posts.
- 5—Flange molded to inner pole piece.
- 6—Outer pole piece of special alloy.
- 7—Heavy ALNICO permanent magnet.
- 8—Bowl of heavy gauge steel.
- 9—Brass assembly nut binds all parts.
- 10—Inner pole piece made of brass.

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Only 9 in. long—Wt. only 8 oz.

This mighty mite is backed by DRAKE'S 25 years of soldering iron manufacturing experience. The high quality and long service of DRAKE Soldering Irons have made them outstanding favorites with all types of radio men everywhere. The DRAKE No. 400 is an outstanding value at



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(Taylor) .....	36 Feb.
G. I. Plans for Postwar Shop (Hetrick) .....	46 Apr.
News from Overseas (Porter) .....	82 Jan., 58 Mar., 66 May, 72, June 80 July
Profession—Flight Radio Officer (Lewis) .....	80 Apr.
Radar Plots the Invasion (Mason) ..	64 Oct.
Radar—Silent Weapon of World War II .....	25 Oct.
The Proximity Fuse .....	51 Dec.
Wacs at Work (Swasey) .....	35 Feb.

### PHONO

Tone Control Circuits (Hoadley) ..	46 Aug.
Tone Control Circuits for Phonographs (Winter) .....	42 Feb.
Unique Volume Expander & Compressor (Stevens) .....	50 July

### POWER SUPPLIES

Line Cord Voltage Bank (Davidson) ..	100 Aug.
Power Supply Filter Design (Renne) ..	38 Feb.
0-300 Volt Regulated Power Supply (Davis) .....	38 Sept.

### RADAR

Practical Radar (McQuay)	
Part 1 .....	29 June
Part 2 .....	38 July
Part 3 .....	39 Aug.
Part 4 .....	40 Sept.
Part 5 .....	44 Oct.
Part 6 .....	41 Nov.
Radar .....	35 Nov.
Radar Plots the Invasion (Mason) ..	64 Oct.
Radar—The Silent Weapon of World War II .....	25 Oct.

### RAILROADS

Pasadena Police Adopt Handie-Talkie .....	130 Mar.
Radio Cuts 3 Hours Off Freight Train Time .....	76 July
Radio for Transit Utilities (David) ..	44 Feb.
Two-Way Radio for Highway Freighters (Chaddick) .....	45 July

### RECEIVERS

Build Your Own V.h.f. FM-AM Receiver (Rattray) .....	29 Dec.
Emergency Radio Receiver Tests (Distelhorst) .....	36 Apr.
450 mc. Super-Regenerative Receiver (Frank, W9JU) .....	29 July
Home Constructed 112 mc. Receiver (Gavin, W9YES, & Heytow, W9FAL) .....	29 Nov.
"Junk Box" Short Wave Receiver (Hooten, W8KPX) .....	36 Sept.
112 mc. Converter (Frank, W9JU) ..	46 Nov.
Radio for Morale (Read) .....	30 May
Simple High-Fidelity Tuner (Kunde, Jr.) .....	42 July

### RECORDING

A New Portable Disc Recorder (Peters) .....	35 Apr.
Business Recording Equipment (Stone) .....	32 Nov.
Dual Speed Recording Unit .....	49 May
Magnetic Tape Recording (Winter) ..	32 June

### RELAYS

D.C. Motor-Operated Time-Delay Relays (Heyl) .....	102 Sept.
F. M. Radio Relay (Lee) .....	54 Dec.

### SERVICE

All-Feminine Service Shop (Latimer) ..	100 Sept.
Answers to RETA Membership Examinations .....	102 July
Constructing a Heavy-Duty Output Transformer (Hurlbut) .....	35 July
Converting a Battery Set to AC Operation (Boles) .....	68 June
Dad's Advice to G.I. Joe (Paige) ..	28 Apr.
Emergency Radio Receiver Tests (Distelhorst) .....	36 Apr.
For the Service Shop (Conklin) .....	64 July
G. I. Plans for Postwar Shop (Hetrick) .....	46 Apr.
"Juke Box" Servicing Proves Successful (Conklin) .....	78 Aug.

Killion's Wartime Plans (Conklin) ..	68 Apr.
Line Cord Voltage Bank (Davidson) ..	100 Aug.
Louis Webb Charts Present-day Service Procedure (Conklin) .....	83 May
Pentode vs Triode Operation (Brier) ..	104 Dec.
Postwar Plans for the Radio Dealer (Conklin) .....	64 June
Radio Serviceman Plans for Postwar Operation (Latimer) .....	88 July
Reaching the Ruralist (Latimer) .....	82 Oct.
Servicemen Are Organizing (Dale) ..	38 Mar.
Servicemen's Guide to Priority Purchasing (Carrington) .....	40 Apr.
Service Now—Sales Later (Tunnell) ..	64 Jan.
Servicing Auto Radios (Kiver) .....	28 Mar.
Servicing Hints on Auto Radio Interferences (Kay) .....	48 Apr.
Sidelines for the Radio Serviceman (Graf) .....	36 July
The Rural Radioman (Winters) .....	36 Mar.

### SOUND (ACOUSTICS, ETC.)

Four Channel Mixer for your Amplifier (King) .....	110 Oct.
Microphone Input Circuit (Campbell) ..	49 Jan.
Phasing of Loud Speakers (Cook) ..	30 Apr.
Servicing Public Address Equipment (Moody) .....	46 Jan.
Tone Control Circuits (Hoadley) .....	46 Aug.
Unique Volume Expander and Compressor (Stevens) .....	50 July
Wartime Speaker Enclosures (Hoadley) .....	48 July

### SHORT WAVE LISTENER

International Short-Wave (Boord)—58 Jan., Feb., 56 Mar., 54 Apr., 47 Oct., 45 Nov., 52 Dec.
---

### TELEVISION

An Introduction to Television (Noll) ..	50 Jan.
Antennas for Television Receivers (Noll) .....	40 Mar.
Color Television (Ehrlich) .....	32 July
Design of Television Receivers (Sobel) .....	35 Mar.

## AMATEURS AND RADIO REPAIRMEN

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AMPLIFIERS

Stanton Radio Supply

W9PSP

W9JKE

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Apr	Functions of Video Circuit (Noll)....	48	Dec.
Aug	Television—As I See It (deForest)...	35	Jan.
May	Television for Future Airway Traffic		
Dec	Control (Morse) .....	38	Jan.
	Television—for Industry and Home		
June	(Baltin) .....	53	Jan.
	Television for the Amateur (Read,		
July	W9ETI) .....	35	Aug.
Oct	Television I.F. Systems (Noll).....	52	July
Mar	Television Industry Prepares for		
	Postwar (Carmine) .....	43	Jan.
Apr	Television in Great Britain (Laden).	32	Jan.
Jan	Television Is Coming to the Smaller		
Mar	Cities (Lescarbours) .....	29	Jan.
	Television Receiver Design (Kiver)...	40	Jan.
	Television R. F. and I. F. Systems		
Apr	(Noll) .....	50	June
	Television Sound Channel (Noll)....	52	Aug.
July	Television Transmitting Equipment		
Mar	(Noll) .....	46	Mar.
	The Television Channel (Noll).....	46	Feb.
	The Television Receiver (Noll).....	32	Apr.
	Video Amplifiers (Noll).....	57	Oct.
<b>TESTING</b>			
	Electrolytic Capacitor Checker		
	(Turner) .....	38	Oct.
	Emergency Radio Receiver Tests		
	(Distelhorst) .....	36	Apr.
	Testing Crystals (Jeltrup).....	44	July
	The Oscilloscope Applied to Trans-		
	mitter Checking (Eddy & Howard)	32	Oct.
<b>THEORY</b>			
	Constructing a Heavy-Duty Output		
	Transformer (Hurlbut) .....	35	July
	Practical Radio Course (Ghirardi)		
	Part 30—Spurious Superhetero-		
	dyne Interference .....	44	Jan.
	Part 31—Spurious Superhetero-		
	dyne Interference .....	52	Feb.
	Part 32—Superheterodyne Oscil-		
	lators .....	64	Mar.
	Part 33—Superheterodyne Oscil-		
	lators .....	50	Apr.
	Part 34—Oscillator Circuits .....	50	May
	Part 35—"Tracking" Superhetero-		
	dynes .....	46	June
	Part 36—"Tracking" Superhetero-		
	dynes .....	48	Aug.
	Part 37—"Tracking" Superhetero-		
	dynes .....	48	Sept.
	Part 39—Pushbutton Tuning .....	56	Dec.
	The Cathode Follower (Hendriks)...	54	Feb.
	Theory and Application of U.H.F.		
	(Kiver) .....		
	Part 9—Coupling Methods .....	58	Feb.
	Part 10—Electric Fields .....	57	Apr.
	Part 11—Magnetic Fields .....	57	June
	Transformer Theory (Wehrmann)...	35	Sept.
	What Makes the Plate Current Dip?		
	(Falgier) .....	118	July
<b>TRAINING</b>			
	Air Corps Radio Phraseology Train-		
	ing (Susan) .....	70	Jan.
	Classroom Chores 10,000 Feet Up		
	(Kent) .....	56	May
	Radio Jobs for G.I. Joe (Wayne)...	25	Nov.
	Training with Visual Aids (Winter)	41	Oct.
<b>TRANSMITTERS</b>			
	Build This Victory Transmitter		
	(Dexter) .....	30	Aug.
	Captured 1000 Watt Jap Transmitter	96	Oct.
	450 mc. Microwave Transmitter		
	(Frank, W9JU) .....	38	May
	Frequency Modulated Transmitters		
	(Newman) .....	38	June
	Generating R. F. at 600 mc. (Maron)	51	Sept.
	Multi-Band 30 Watt Transmitter		
	(Silver) .....	48	Feb.
	100 mc. Transmitter (Maron).....	42	Aug.
	Television Transmitting Equipment		
	(Noll) .....	46	Mar.
<b>TUBES</b>			
	The Saga of the Vacuum Tube		
	(Tyne) .....		
	Part 15 .....	54	Jan.
	Part 16 .....	52	Mar.

# PLUGS and JACKS

...for every known application!

Built in accordance with latest Signal Corps and Navy specifications, Amalgamated Plugs and Jacks are tropicalized to make them fungus resistant, waterproof and moistureproof when called for. Insulators of these components are designed to withstand extremes of temperatures for  $-67^{\circ}\text{F}$  to  $+167^{\circ}\text{F}$ , at humidities up to 100%. We also specialize in producing Plugs which will bear up under the high heat met in rubber molding cord sets.



**NOTE:** Amalgamated Engineers will gladly consult with you on the design and development of Plugs and Jacks for special applications — present or postwar.



## PLUG PL-55 and N.A.F. 1136-1

Long sleeve, two-conductor plug, mate to Jack JK-34-A. Withstands minimum of 60 cycles AC potential of 500 volts effective, applied between any two terminals for not less than two seconds. Meets minimum insulation value of 2000 megohms between conductors at  $68^{\circ}\text{F}$ , at humidities up to 100%.



## JACK JK-26, N.A.F. 215284-2

Two-conductor Jack, mate to PL-54. Tropicalized. Withstands 60 cycle AC potential of 500 volts effective, applied between any two terminals for not less than two seconds. Meets minimum insulation value of 2000 megohms between conductors at  $68^{\circ}\text{F}$ , at humidities up to 100%.



## PLUG, STYLE "A"

Two-conductor, special type plug for use with Neoprene or Buna S molded cords. Same specifications as PL-55.



## JACK JK-48

Light duty, two-conductor Jack, mate to Plug PL-291 and Plug 291-A.



## PLUG PL-204

Hand set. A special plug wherein both a modified plug, PL-55 and PL-68, are held in place by a phenolic case. Same specifications as PL-55 and PL-68.



## PLUG PL-54, PL-540, PL-354, N.A.F. 215285-2

Short sleeve, two-conductor plug, mate to Jack JK-26. Same specifications as PL-55.



## PLUG, STYLE "D"

Two-conductor, special type plug for use with Neoprene or Buna S molded cords. Same specifications as PL-55.

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Part 17 .....	58 May
Part 18 .....	56 July
Part 19 .....	54 Sept.
Part 20 .....	51 Nov.
Tube Substitution Chart (Crane)....	51 Apr.

### U. H. F.

The Future of U. H. F. (Laden)....	25 June
Theory and Application of U. H. F. (Kiver).....	
Part 9—Coupling Methods .....	58 Feb.
Part 10—Electric Fields .....	57 Apr.
Part 11—Magnetic Fields .....	57 June
Transmission Lines at 200 mc. (Garretson) .....	28 Feb.
Wave Guides (Mallory).....	36 Dec.
Let's Talk Shop (Marty)—51 Feb., 51 Mar., 45 Apr., 48 May, 45 June, 45 Aug., 44 Sept., 35 Dec.	
QTC (Coleman)—57 Jan., 60 Feb., 55 Mar., 56 Apr., 55 May, 56 June, 55 July, 55 Aug., 50 Sept., 56 Oct., 43 Dec.	

—50—

### International Short-Wave (Continued from page 110)

burg, operating on a frequency of 6.020, 49.8 meters, by authority of the Chief Signals Officer of the U.S. Army." A New Delhi frequency of 11.71 is reported in English at 8:30 a.m.; heterodyned by WLWK. Addis Ababa, Ethiopia, 9.620, relays BBC news at 11 a.m.; fair signal in Australia.

London's high frequencies, GSH, 21.470; GSJ, 21.530; GVR, 21.675; and GSK, 26.100, are being heard with good signals in the East around 8 a.m. London's Pacific service is now heard at new hours, 1-5 a.m.

A domestic relay is reported from OIX5, 17.801, Lahti, Finland, 8 a.m.-12:30 p.m.; suffers severe interference from Cincinnati on the same frequency.

HVJ, Vatican City, has been reported with test programs to Mexico on 17.740 at 12-12:18 p.m. and on 15.120 at 12:30-12:45 p.m. Have also used 15.120 and 11.740; excellent signals in East.

A late report indicates that the 2:15 a.m. transmission from Dakar, French West Africa, is now being radiated on 7.210 and 6.917, the latter having replaced the 11.715 frequency which was used for a while.

Although reports have come in during recent months on reception of *Radio Funchal*, 7.095, a letter received by an Eastern DXer from the proprietor of station CS2ZV, Funchal, Madeira, states there has been a ban on broadcasting from Madeira during the war and that no station is or has been operating as *Radio Funchal*. With the war's end, *Funchal* may return to the air.

*Sharq el Adna*, 6.135, Jerusalem, Palestine, is reported fair nightly, 11 p.m.-12 midnight; Jaffa, 6.170, reported heard in French, to 4 p.m., announcing as *Radio Palestine*, but seemed to be one of the "Sharq el Adna" transmitters.

Guam's KU5Q was due to close down around November 1, but remained on to relay Shanghai to American net-

works. By this time, however, Guam frequencies may have been discontinued. Shanghai may now be relayed by Manila transmitters, which were relaying XGOO part of the time as early as late October.

Latest schedule reported on *Voice of America in North Africa* (American sources) is 6.040, 12:30-6 p.m.; 9.610 1:45-6 p.m.; and 11.760, 6 a.m.-1:30 p.m. *Radio France*, 12.120, Algiers, heard with good signals, 12 noon-1 p.m.; no longer is relaying Prague as it did during early fall by mistake!

*Radio National Belge*, Leopoldville, Belgian Congo, has been changing frequencies slightly and often; latest frequency reported is 9.740; verifies with call listed as OTC.

British Guiana's ZFY, 6.000, Georgetown, has been heard this winter signing off at 7:20 or 7:30 p.m.; good signals usually in the East, both early mornings and early evenings.

Sofia, Bulgaria, on 9.300 is reported 12 midnight-1:10 a.m.

WVL, 2.380, Quarry Heights, Canada Zone, may be on 2.390 now; being heard with poor signals, 10:28 to signing off at 11:05 p.m.

SUV, 10.055, Cairo, Egypt, heard to sign-off at 3:37 p.m. (Harris)

Listed schedule of OIX5, 17.800, Lahti, Finland, is 1:30-2, 5-5:40 a.m.

HH2S, 5.947, Port-au-Prince, Haiti, has been heard opening in French at 6:30 p.m.

ICD, 16.385, Rome, Italy, reported used to American networks, irregularly, usually at 8-8:15 a.m.

*Radio Tananarive*, 12.127, Madagascar, signs off at 8:45 a.m., reported best around 7:30 a.m.

XEBR, 11.820, Hermosillo, Mexico, verifies with a white card displaying a map of Mexico in blue.

YNQ, 6.915, Managua, Nicaragua, *La Voz de la Victoria*, verifies by air mail letter, and is not using YNQR call as given in official lists for this short-wave transmitter; address is Apartado 338.

A Jaffa, Palestine, station on 6.790 was heard in late summer testing 1:30-4 p.m., announcing as the *Near East Broadcasting Station*.

Stockholm's SBT, 15.155, is listed 6:50 a.m. and 10 a.m.-1:15 p.m. weekdays; Sundays, 2:45 a.m.-1:15 p.m. We have been hearing this station almost daily, but only at 10-10:55 a.m.

From Europe comes a report that HVJ, 9.550, Vatican City, has English news at 1:15 p.m. Also has been heard in the East, testing, 12-12:45 p.m. on 17.840, where it suffers heavily from *Radio Eirrean* on same frequency.

Belgrade has been reported as heard irregularly on 6.150, usually 4-6 p.m. and on 9.420, 12 midnight to fade-out around 2 a.m.; no longer uses 9.505.

### ACKNOWLEDGEMENTS

AUSTRALIA—Maher, Gillett; CALIFORNIA—Dilg, Balbi, Curtiss, Cole Noyes; CANADA—International Service, CBC, the Rogers Broadcasting Co. Ltd., CHNS (Nova Scotia); COLORADO

RADIO NEWS

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